

Engineering Process of Windows 2000

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Windows Division

Outline

- Organization
- Process
 - Cycles
 - Issue Tracking
- Ship Criteria
 - Tester's Role
- Key Initiatives
 - Compatibility
 - Reliability
 - Deployment

Organization

- **Core Feature Teams**

- Program Managers
- Developers
- Testers

- **Central Services**

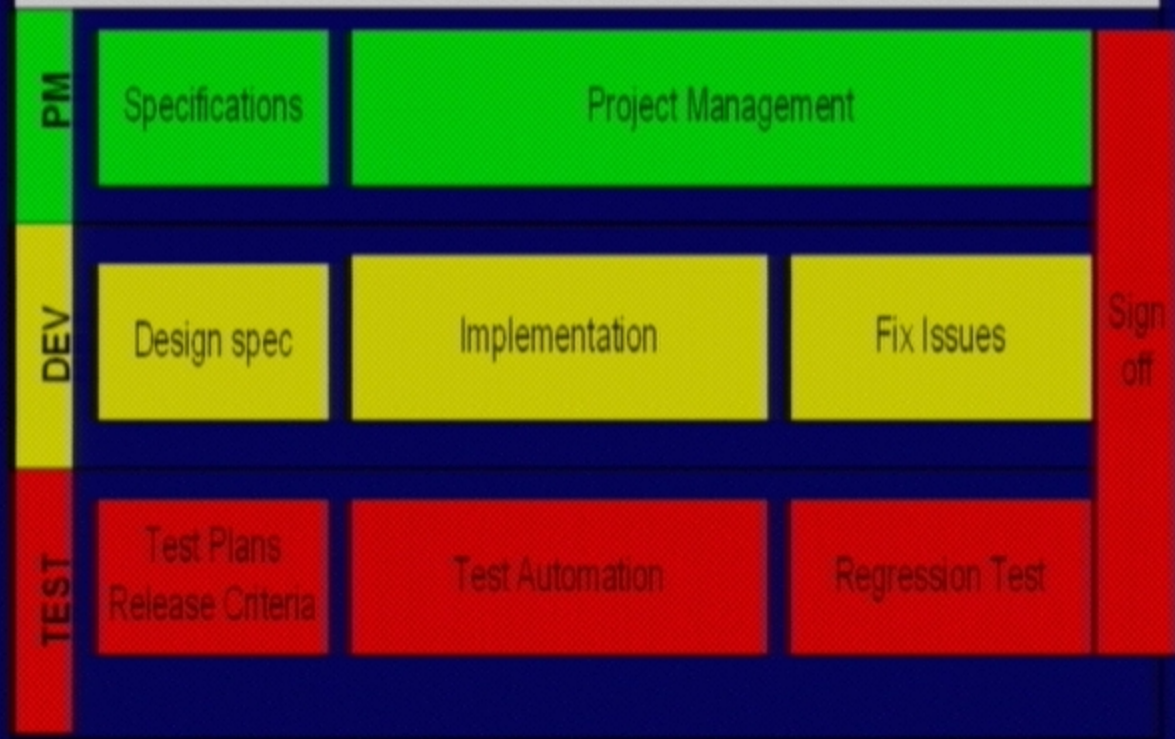
- Release Management
- Build/UA/LOC

- **Product Marketing**

- **Technology Areas**

- Base OS
- Networking
- Server
- Client
- Management
- COM+/Web services
- Other

Roles played by the core teams



Roles played by the core teams

PM	Specifications	Project Management	Sign off
DEV	Design spec	Implementation	
TEST	Test Plans Release Criteria	Test Automation	
		Regression Test	

Daily Lifecycle Video



Play/list4

Now
PlayingMedia
Guide

Audio

Media
LibraryRadio
JockeyPortable
DeviceSkin
Designer

Microsoft Windows Report - Microsoft Windows

File Edit View Format Tools Window Help

File Edit View Format Tools Window Help

Format: Default Properties (Web Content)

File: Microsoft Office Word document

Format: Default Properties (Web Content)

1	File: Microsoft Office Word document	1	File: Microsoft Office Word document	1	File: Microsoft Office Word document
2	File: Microsoft Office Word document	2	File: Microsoft Office Word document	2	File: Microsoft Office Word document
3	File: Microsoft Office Word document	3	File: Microsoft Office Word document	3	File: Microsoft Office Word document

Format

File: Microsoft Office Word document

File: Microsoft Office Word document

File: Microsoft Office Word document

File: Microsoft Office Word document

File: Microsoft Office Word document

4	File: Microsoft Office Word document	4	File: Microsoft Office Word document	4	File: Microsoft Office Word document
5	File: Microsoft Office Word document	5	File: Microsoft Office Word document	5	File: Microsoft Office Word document
6	File: Microsoft Office Word document	6	File: Microsoft Office Word document	6	File: Microsoft Office Word document

File: Microsoft Office Word document

dailycycle

4:43

Total Time: 4:43



Clip: dailycycle

01:20



Microsoft

Windows Task Manager

cmd

Windows 2000 Tech...

Windows Media Player

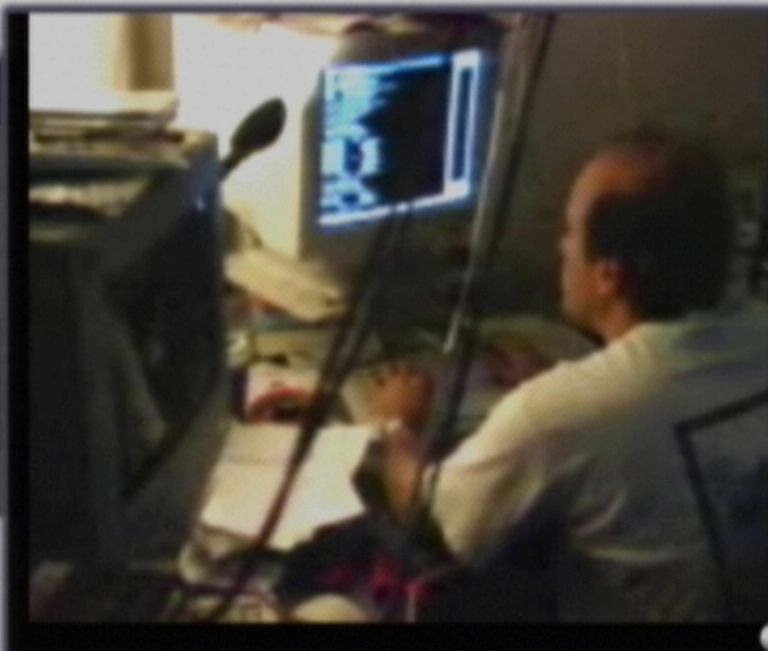
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Playlist4



- Now Playing
- Media Center
- Audio
- Media Library
- Radio Jukebox
- Portable Device
- Skin



dailycycle

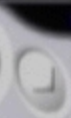
4:43

Total Time: 4:43



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01:51





File a bug
report



Online Notes



Run in
compatibil...



cmd



Microsoft
Outlook



TS Corpent



Windows Whistler Lifecycle Bin

For testing purposes only. Build 2457

Start

Windows Task Man...

cmd

Windows 2000 Test...

Windows Media Player

3:51 PM

Test Cycles

- Daily
 - War Room meeting
 - Key Indicators tracked
- Weekly
 - IDW
 - IDS
 - Automation Test Pass
- RC/Beta
 - System Level Tests
 - Customer Feedback Review
 - Formal Signoff

Incremental Improvement

User Base

Quality



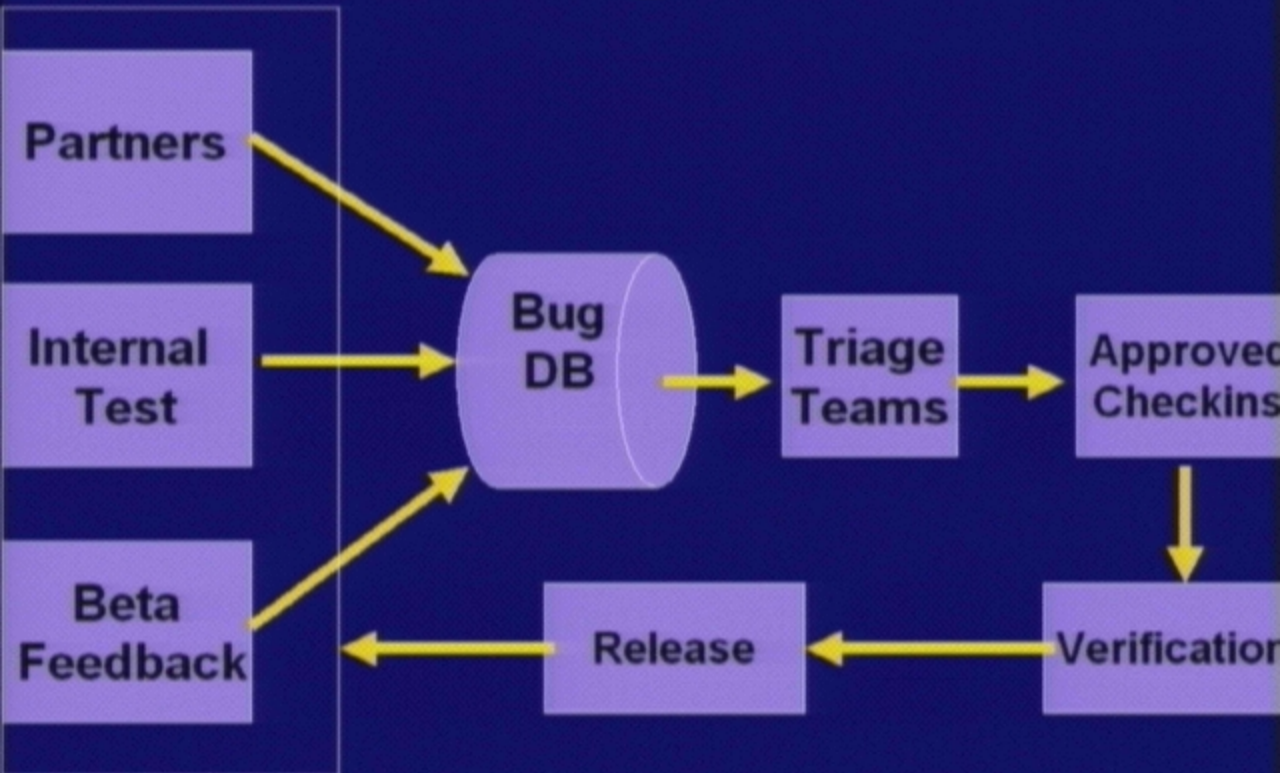
RTM

RC/Beta Builds

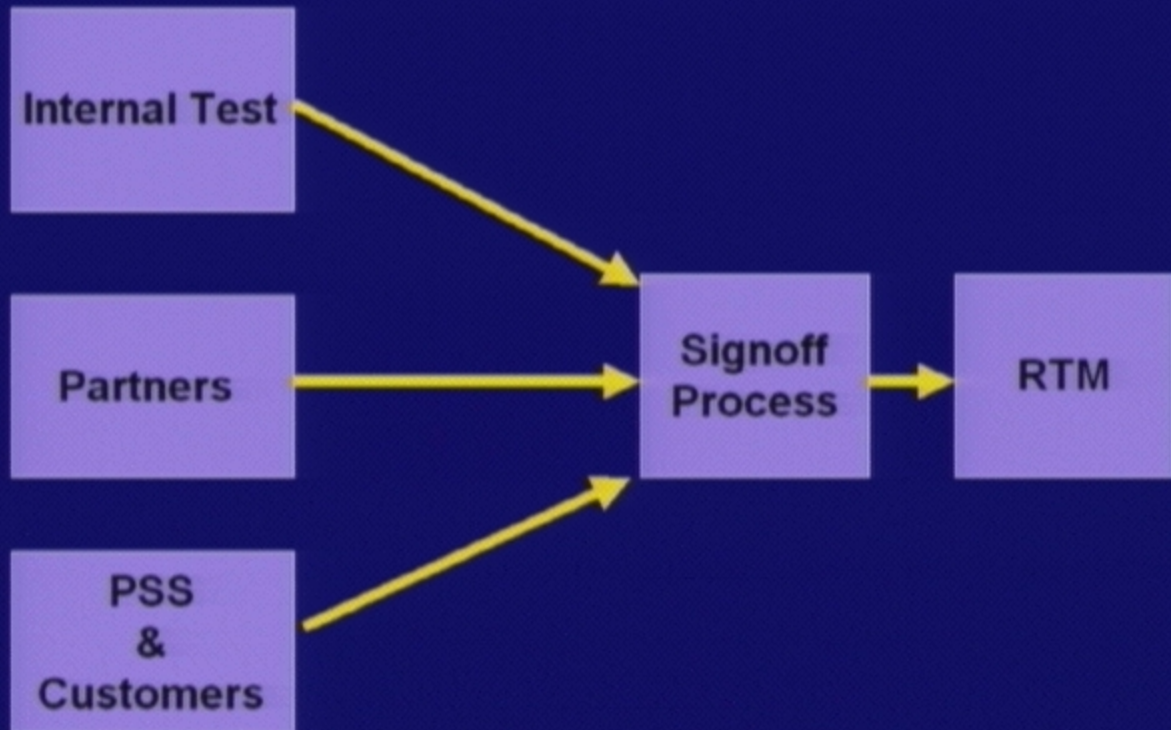
Weekly Builds

Daily Builds

Issue Tracking



Ship Criteria



Test Team's Role

- Customer Advocate
 - ISV : API / Interface level (SDK)
 - IHV/OEM : WHQL Logo Test Kits (DDK)
 - Admin, End User Experience
- Component level
- System level
 - Compatibility, Reliability, Security
 - Globalization, Localization, Accessibility
 - Setup, Configuration, Upgrade matrix
 - Manageability, Performance, Scalability
 - Deployment, Integration, Interoperation

Focus on Compatibility

- **Hardware Compatibility**
 - 10,000 devices supported
 - 5000 OEM systems supported
 - 100+ hardware vendors shipping systems with Win2000 at launch
- **Software Compatibility**
 - 7000+ applications supported
 - Internal test focused on productivity and server applications
 - Worked with customers and partners to test line-of-business applications

Focus On Reliability

- Load profile of key services
- Simulation of peak loads
 - Recovery from fault injections
- MTTB, MTTR, Availability
- Driver Verifier, Prefix, leak monitoring
- Internal, ITG and Customer data
 - >5000 customer site servers tracked
 - Good correlation with internal data

Focus on Deployments

- Staged deployment plans for key services
- End to End scenarios deployed
- Windows2000 team self hosted for 2+ years
- JDP program : Live Deployments
- Microsoft deployed 70,000 desktops and 2000+ servers before launch
- Several DotComs went live

Where do you



want to go

today?

Microsoft